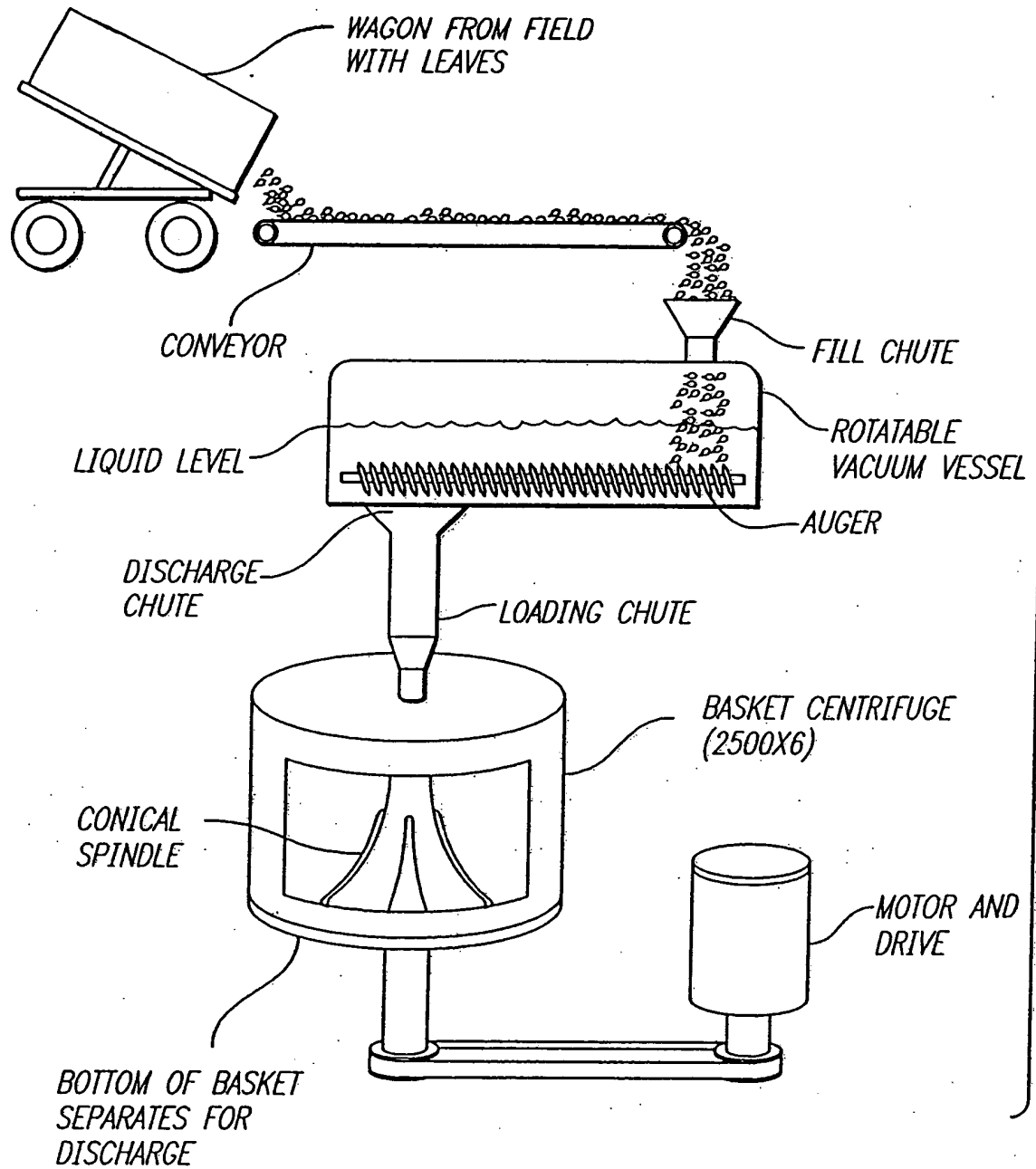


BATCH VESSEL INFILTRATION

FIG. 2



CONTINUOUS VACUUM INFILTRATION

FIG. 3

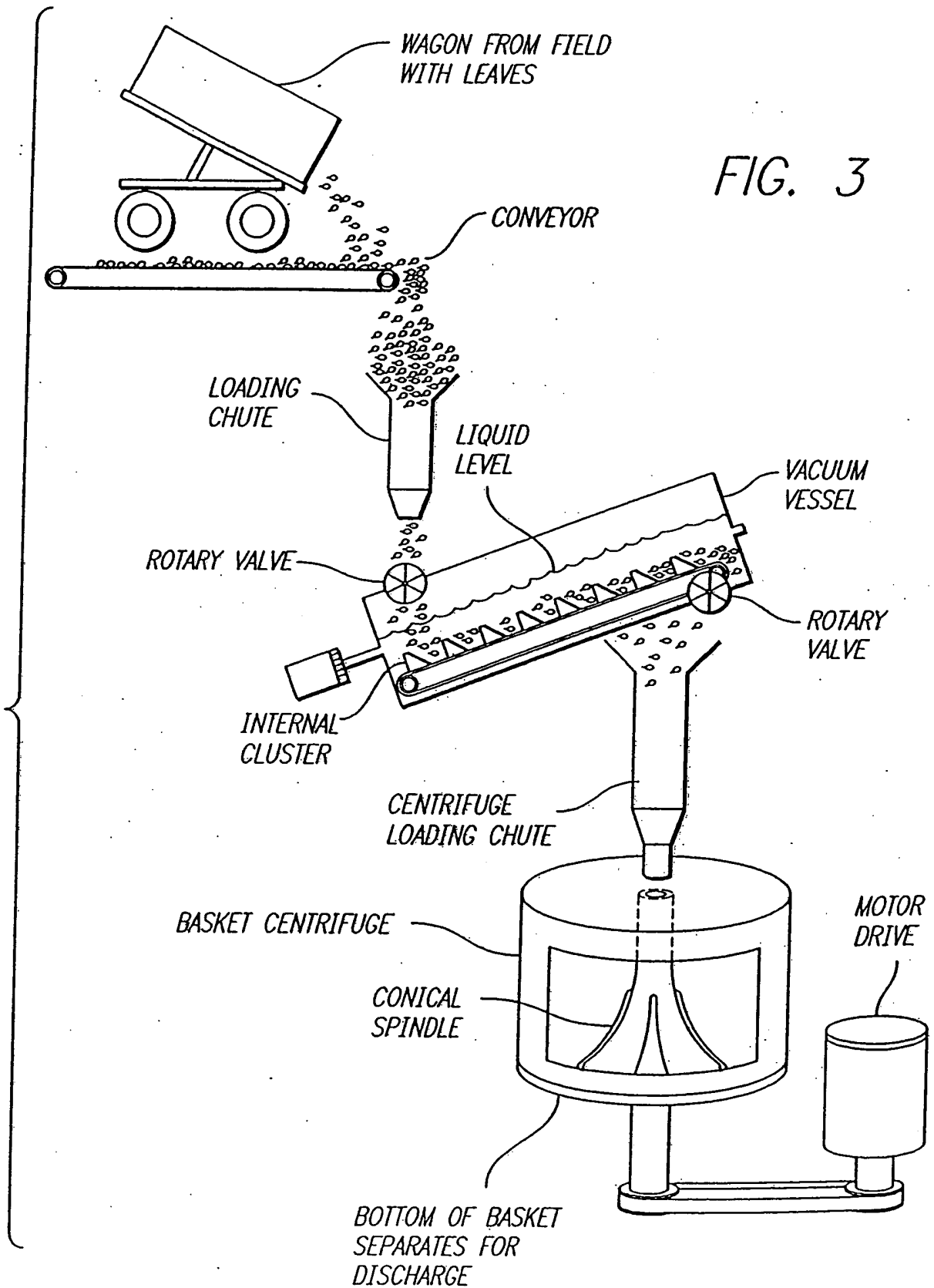
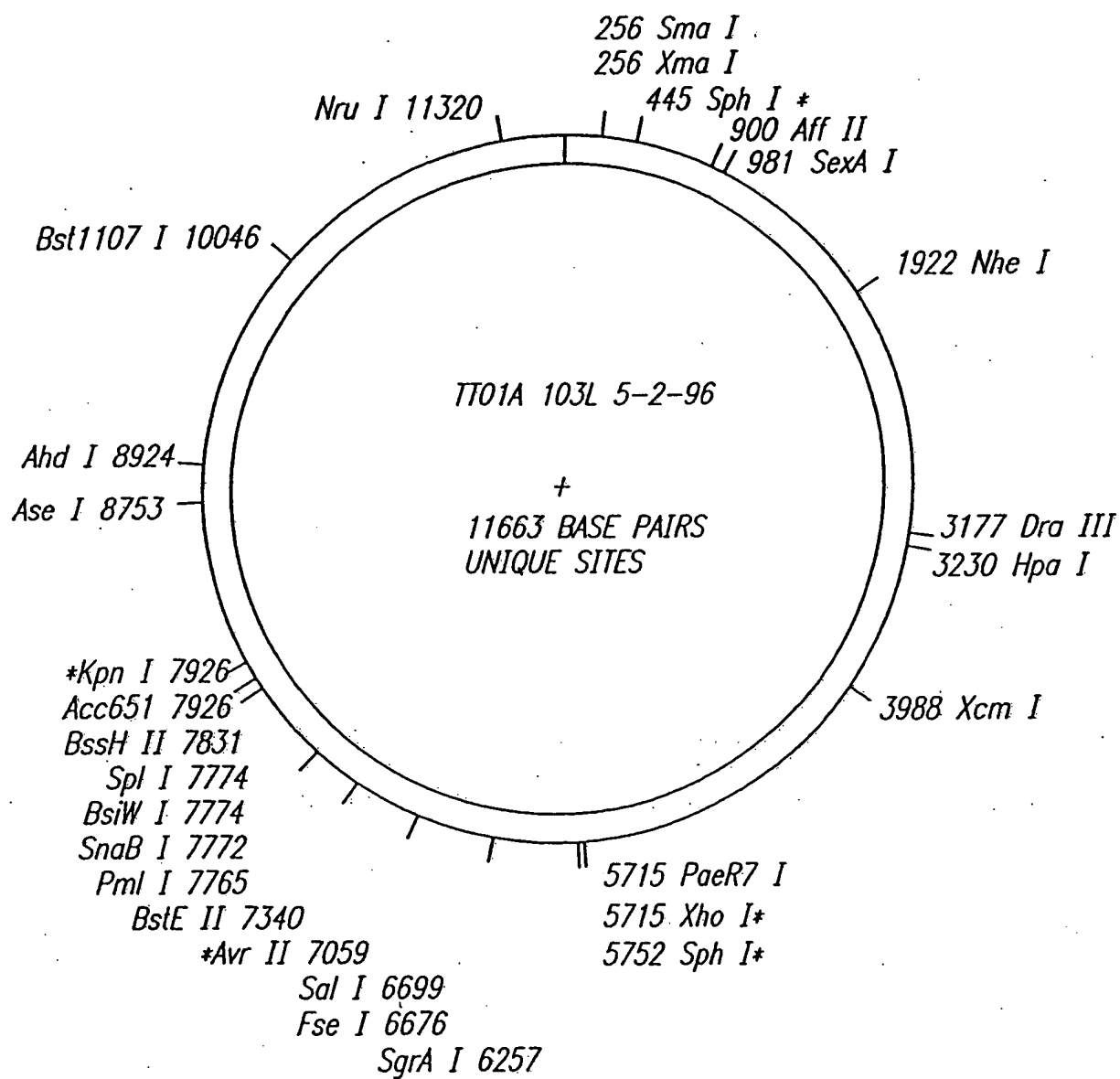


FIG. 4



TT01A 103L Viral cDNA

	10	20	30	40	50	60	70	80
1	gtatttttac	aacaattacc	aacaacaaca	aacaacaac	aacattacaa	ttactattta	caattacaat	ggcatatacaca
81	cagacagcta	ccacatcagc	tttgctggac	actgtccgag	gaaacaaactc	cttgggtcaat	gatctagcaa	agcgtcgctct
161	ttacgacaca	gcggttgaa	agtttaacgc	tcgtgaccgc	agggcccaagg	tgaacttttc	aaaagtaata	agcgaggagc
241	agacgcttat	tgctacccgg	gcgtatccag	aattccaaat	tacattttat	aacacgcaaa	atgccgtgca	ttcgtttgca
321	ggtggaattg	gatctttaga	actggaatat	ctgatgatgc	aaattcccta	cggatcattg	acttatgaca	taggcgggaa
401	ttttgcacgc	catctgttca	agggacgagc	atatgtacac	tgctgcatgc	ccaaacctgga	cgttcgagac	atcatgcggc
481	acgaaggcca	gaaagacagt	attgaaactat	accitttctag	gctagagaga	gggggaaaa	cagtcgccaa	cttccaaaa
561	gaagcatttg	acagatacgc	agaaattcct	gaagacgctg	tcgtgcacaa	tactttccag	acaatgcgac	atcagccgat
641	gcagcaatca	ggcagagtgt	atgccattgc	gctacacagc	atataigaca	taccagccga	tgagttcggg	gcggcacctct
721	tgagsgaaaa	tgtccatagc	tgctatgccg	ctttccactt	ctctgagaac	ctgcttcttg	aagattcata	cgtcaatttg
801	gacgaatca	acgcgtgttt	ttcgcgcgat	ggagacaaat	tgaccttttc	ttttgcatca	gagagtactc	ttaatatttg
881	tcatagtatt	tctaataattc	ttaatgtatgt	gtgcaaaact	tactttccgg	ccctctaatag	agaggittac	atgaaggagat
961	tttttagtcac	cagagttaat	acctggitttt	gtaaagitttc	tagaatatag	acttttcttt	tgtacaaaag	tgtggcccat
1041	aaaagtgtag	atagttagca	gttttatact	gcaatggag	acgcataggca	ttacaaaaag	actcttgcaa	tgtgcaacag
1121	cgagagaatc	ctccttgagg	attcatcatc	agtcaattac	tggtttccca	aaatgaggga	tatggtcatac	gtaccatttat
1201	tcgacatttc	tttgagagact	agtaagaggga	cgcgcaaggga	agtccttagtg	tccaaggatt	tcgtgtttac	agtgcttaac
1281	cacatttcgaa	cataccaggc	gaaagctctt	acatacgcga	atgttttgtc	ctttgtcgaa	tcgatttcgat	cgagggtaat
1361	cattaacggg	gtgacagcga	ggtcggaatg	ggatgiggac	aaatctttgt	tacaatccit	gtccatgacg	ttttacctgc
1441	atactaagct	tgccgttcta	aaggatgact	tactgattag	caagtttagt	ctcggttcga	aaacgggtg	ccagcatgtg
1521	tgggatgaga	tttcgctggc	gtttgggaac	gcattttccct	ccgtgaaaaga	gaggctcttg	aacagsgaaac	ttatcagagt
1601	ggcaggcgac	gcattagaga	tcagggtgcc	tgatctatat	gtgaccttcc	acgacagatt	agtgactgag	tacaaggcct
1681	ctgtggacat	gcctggcgtt	gacattagga	agaagatgga	agaaacggaa	gtgatgtaca	atgcactttc	agagttatcg
1761	gtgttaaggg	agcttgacaa	attcgatgtt	gatgtttttt	cccagatgtg	ccaatctttg	gaagttgacc	caatgacggc
1841	agcgaagggt	atagtcgagg	tcatgagcaa	tgagagcggg	ctgactctca	catttgaacg	acctactgag	gcgaatgttg
1921	cgctagcttt	acaggatcaa	gagaaggcct	cagaagggtc	ttttgtagt	acctcaagag	aagttgaaga	accgtccatg
2001	aagggttcga	tggccagagg	agagttacaa	ttagctggtc	ttgctggaga	tcatccggag	tcgtcctatt	ctaagaacga
2081	ggagatagag	tcttttagag	agtttcatat	ggcaacggca	gattcgittaa	ttcgtaaagca	gatgagctcg	atttgtatac
2161	cggttcogag	taaagttcag	caaatgaaaa	actttatcga	tagcctggta	gcatacctat	ctgctgcggg	gtcgaatctc
2241	gtcaagatcc	tcaagatatc	agctgctatt	gaccttgaaa	cccggtcaaaa	gttttgagtc	ttggatgttg	catctaggaa
2320								

FIG. 5-B

2321 GTGGTTAATC AACCAACGG CCAAGAGTCA TGCATGGGT GTTGTGAAA CCCACGCGAG GAAGTATCAT GTGGCGCTTT 2400
 2401 TGAATATGA TGAGCAGGT GTGGTGACAT GCGATGATTG GAGAAGAGTA GCTGTCAGCT CTGAGTCTGT TGTATTATCC 2480
 2481 GACATGGCGA AACTCAGAAC TCTGCGCAGA CTGCTTCGAA ACGGAGAACC CGATGTCAGT AGCGCAAGG TTGTTCTTGT 2560
 2561 GGACGGAGTT CCGGGCTGTG GGAATAACCA AGAAATTCCT TCCAGGGTTA ATTTTGATGA AGATCTAATT TTAGTACCTG 2640
 2641 GGAAGCAAGC CGCGAAATG ATCAGAAGAC GTGCGAATTC CTCAGGGATT ATTGTGGCCA CGAAGGACAA CGTTAAACC 2720
 2721 GTTGATTCTT TCATGATGAA TTTTGGGAAA AGACACAGCT GTCAATTCAA GAGGTIATTC ATTGATGAAG GGTGATGTT 2800
 2801 GCATACTGGT TGTGTTAATT TTCTTGTGGC GATGTCATTG TGCSAAATTG CATATGTTTA CCGAGACACA CAGCAGATTC 2880
 2881 CATACATCAA TAGAGTTTCA GGATTCCTGT ACCCGGCCA TTTTGCCAAA TTGGAAGTTG ACGAGGTGGA GACACGAGA 2960
 2961 ACTACTCTCC GTTGTCCAGC CGATGTCACA CATTATCTGA ACAGGAGATA TGAGGGCTTT GTCATGAGCA CTTCCTCGT 3040
 3041 TAAAAAGTCT GTTTCGCAGG AGATGGTCGG CGGAGCCGCC GTGATCAATC CGATCTCAA ACCCTTGCAT GGCAAGATCC 3120
 3121 TGACTTTTAC CCAATCGGAT AAAGAAGCTC TGCCTTCAAG AGGTAATTCA GATGTTTACA CTGTGCATGA AGTGCAAGC 3200
 3201 GAGACATACT CTGATGTTTC ACTAGTTAGG TTAACCCCTA CACCAGTCTC CATCATTTGCA GGAGACAGCC CACATGTTT 3280
 3281 GGTCGCATTG TCAAGGCACA CCTGTTCTGT CAAGTACTAC ACTGTTGTTA TGGATCCTTT AGTTAGTATC ATTAGAGATC 3360
 3361 TAGAGAAACT TAGCTCGTAC TTGTTAGATA TGTATAAGGT CGATGCAGGA ACACAATAGC AATTACAGAT TGACTCGGTG 3440
 3441 TTCAAAGGTT CCAATCTTTT TGTTCAGCG CCAAGACTG GTGATATTC TGATATGCAG TTTTACTATG ATAAGTGTCT 3520
 3521 CCCAGGCAAC AGCACCATGA TGAATAATTT TGATGCTGTT ACCATGAGGT TGACTGACAT TTCATTGAAT GTCAAAGATT 3600
 3601 GCATATTGGA TATGCTAAG TCTGTTGCTG CGCCTAAGGA TCAAATCAA CCACTAATAC CTATGGTACG AACGGCGCA 3680
 3681 GAAATGCCAC GCCAGACTGG ACTATTGGAA AATTTAGTGG CGATGATTAA AAGGAACCTT AACGCACCCG AGTTGCTGG 3760
 3761 CATCATTTGAT ATTGAAATA CTGCATCTTT AGTTGTAGAT AAGTTTTTG ATAGTTATTT GCTTAAAGAA AAAAGAAAAC 3840
 3841 CAAATAAAAA TGTTCTTTG TTCAGTAGAG AGTCTCTCAA TAGATGGTTA GAAAAGCAGG AACAGGTAAC AATAGGCCAG 3920
 3921 CTCGCAGATT TTGATTTTGT AGATTTGCCA GCAGTTGATC AGTACAGACA CATGATTAA GCACAACCCA AGCAAAAATT 4000
 4001 GGACACTTCA ATCCAAACGG AGTACCCGGC TTTCGACAGG ATTGTGATCC ATTCAAAAA GATCAATGCA ATATTGGCC 4080
 4081 CGTTGTTTAG TGAGCTTACT AGGCAATTAC TGGACAGTGT TGATTCGAGC AGATTTTTGT TTTTCACAAG AAAGACACCA 4160
 4161 GCGCAGATTG CGGATTTCTT CGGAGATCTC GACAGTCTAT TGCCGATGGA TGTCTTGGAG CTGGATATAT CAAAATACGA 4240
 4241 CAAATCTCAG AATGAATTC ACTGTGCAGT AGAATACGAG ATCTGGCGAA GATTGGGTTT TGAAGACTTC TTGGGAGAAG 4320
 4321 TTTGGAACA AGGCGATAGA AAGACCACCC TCAAGGATTA TACCGCAGGT ATAAAACTT GCATCTGGTA TCAAGAAAAG 4400
 4401 AGCGGGGACG TCACGACGTT CATTGGAAAC ACTGTGATCA TTGCTGCATG TTTGGCCTCG ATGCTTCCGA TGGAGAAAAT 4480
 4481 AATCAAAGGA GCCTTTTGGC GTGACGATAG TCTGCTGTAC TTTCCAAAGG GTTGTGAGTT TCCGGATGTG CAACACTCCG 4560
 4561 CGAATCTTAT GTGGAATTTT GAAGCAAAAC TGTTTAAAA ACAGTATGGA TACTTTTGGG GAAGATATGT AATACATCAC 4640
 4641 GACAGAGGAT GCATTGTGTA TTACGATCCC CTAAAGTTGA TCTCGAAACT TGGTGCTAAA CACATCAAGG ATTGGGAACA 4720

FIG. 5-C

4721 CTTGGAGGAG TTCAGAAAGGT CTCTTTGTGA TGTTGCTGTT TCGTTGAACA ATTGTGCGTA TTACACACAG TTGGACGACG 4800
 4801 CTGTATGGGA GGTTCATAAG ACCGCCCTC CAGGTTCTGT TGTTTATAAA AGTCTGGTGA AGTATTGTG TGATAAAGTT 4880
 4881 CTTTTTAGAA GTTTGTTTAT AGATGGCTCT AGTTGTTAAA GGAAGAAGTGA ATATCAATGA GTTTATCGAC CTGACAAAAA 4960
 4961 TGGAGCCGAT CTTACCGTGG ATGTTTACCC CTGTAAAGAG TGTATGTGT TCCAAAGTTG ATAAATAAT GGTTCATGAG 5040
 5041 AATGAGTCAT TGTACAGAGT GAACCTTCTT AAAGGAGTTA AGCTTATTGA TAGTGGATAC GTCTGTTTAG CCGGTTTGGT 5120
 5121 CGTCACGGGC GAGTGGAACT TGCCTGACAA TTGCAGAGGA GGTGTGAGCG TGTGTCTGGT GGACAAAAGG ATGGAAGAG 5200
 5201 CCGACGAGGC CACTCTCGGA TCTTACTACA CAGCAGCTGC AAAGAAAAGA TTTTCAAGTTCA AGGTGTTCC CAATTATGCT 5280
 5281 ATAACCAACC AGGACGCGAT GAAAAACGTC TATGTTAATAT TAGTAAATAT TAGAAATGTG AAGATGTCAG CCGGTTTCTG 5360
 5361 TCCGCTTCT CTGGAGTTTG TGTGAGTTTG TATGTTTAT AGAATAATA TAAATTAGG TTTGAGAGAG AAGATTACAA 5440
 5441 ACGTGAGAGA CGGAGGGCCC ATGGAACCTTA CAGAAGAAGT CGTTGATGAG TTCATGGAAG ATGTCCTAT GTCGATCAGG 5520
 5521 CTTGCAAAGT TTCGATCTCG AACCGGAAAA AAGAGTGATG TCCGCAAAGG GAAAAATAGT AGTAATGATC GGTCAAGTCC 5600
 5601 GAACAAGAAC TATAGAAATG TTAAGGATTT TGGAGGAATG AGTTTAAAA AGAATAATT AATCGATGAT GATTGAGG 5680
 5681 CTACTGTGCG CGAATCGGAT TCGTTTTAAA TACGCTCGAG ATCAATCATC CATCTCCGA GTGTGTCTGC AGCATGCAGG 5760
 5761 TGCTGAACAC CATGGTGAAC AAACACTTCT TGTCCTTTC GGTCTCATC GTCCTCCTG GCCTCTCCTC CAACTTGACA 5840
 5841 GCCGGGCAAG TCCGTGTTCA GGGATTCAAC TGGGAGTCTG GGAAGGAGAA TGGCGGTTG TACAACCTCC TGATGGCAA 5920
 5921 GGTGACGAC ATCGCCGCGAG CCGGCATCAC CCACGTCTGG CTCCCTCCG CGTCTCACTC TGTCGGAGAG CAAGGCTACA 6000
 6001 TGCCTGGCG GCTGTACGAT CTGGACGCGT CTAAGTACGG CAACGAGGCG CAGCTCAAGT CGCTGATCGA GCGGTTCCAT 6080
 6081 GGCAAGGGCG TCCAGGTGAT CGCCGACATC GTCATCAACC ACCGCACGGC GGAGCACAAAG GACGGCCGAG GCATCTACTG 6160
 6161 CCTCTTCGAG GCGGGGACGC CCGACTCCCG CCTCGACTGG GGCCCGCACA TGATCTGCCG CGACGACCCC TACGGCGATG 6240
 6241 GCACCGCAA CCGGACACC GCGCGGACT TCGCCGCCG GCGGACATC GACCACCTCA ACAAGCGGT CCAGCGGAG 6320
 6321 CTCATTGGCT GGCTCGACTG GCTCAAGATG GACATCGGT TCGACGCGTG GCGCTCGAC TTCGCCAAGG GCTACTCCG 6400
 6401 CGACATGGCA AAGATCTACA TCGACGCCAC CGAGCCGAGC TTGCGCGTGG CCGAGATATG GACGTCCATG GCGAACGGCG 6480
 6481 GGGACGGCAA GCCGAACCTAC GACCAGAAGC CGCACCGGA GAGCTGGTC AACTGGGTG ATCGTGTGG CCGCGCCAAC 6560
 6561 AGCAACGGCA CGGCGTTCGA CTTACCAACC AAGGGCATCC TCAACGTGCG CGTGGAGGGC GAGCTGTGGC GCCTCCGG 6640
 6641 CGAGGACGGC AAGGCGCCG GCATGATCGG GTGGTGGCCG GCCAAGGCGA CGACCTTCGT CGACAACCAAC GACACCGGT 6720
 6721 CGACGCAGCA CCTGTGGCG TTCCCTCCG ACAAGGTCTAT GCAGGGCTAC GCATACATCC TCACCCACCC CCGCAACCCA 6800
 6801 TGCATCTTCT ACGACCATTT CTTCGATTGG GGTCTCAAGG AGGAGATCGA GCGCCTGGTG TCAATCAGAA ACCGGCAGG 6880
 6881 GATCCACCCG GCGAGCGAGC TGGCATCAT GGAAGCTGAC AGCGATCTCT ACCTCGGGA GATCGATGGC AAGGTGATCA 6960
 6961 CAAAGATTGG ACCAAGATAC GACGTGGAAC ACCTCATCCC CGAAGGCTTC CAGGTCTGCG CCGACGGTGA TGGCTACGCA 7040
 7041 ATCTGGGAGA AAATCTGACC taggctcgca agtttcgaa ccaaatcctc aaaaagggt ccgaaaaata ataataattt 7120

FIG. 5-D

7121	aggtaaagggg	cgttcaggcg	gaaggccctaa	acaaaaaagt	tttgatgaag	gttgataat	ttgattgaag	7200
7201	atgaagccga	gacgtcggtc	gcgattctg	attcgatta	aatatgictt	actcaatcac	ttctccatcg	7280
7281	TTTTGTCATC	TGTATGGGCT	GACCCCTATAG	AATTGTTAAA	CGTTTGTACA	AATTCGTTAG	GTAACCAAGTT	7360
7361	CAAGCAAGAA	CTACTGTTCA	ACAGCAGTTC	AGCGAGGTGT	GGAAACCTTT	CCCTCAGAGC	ACCGTCAGAT	7440
7441	TGTTTATAAG	GTGTACAGGT	ACAATGCAGT	TTTAGATCCT	CTAATTACTG	CGTTGCTGGG	GGCTTTTGAT	7520
7521	GAATAATCGA	AGTAGAAAAAC	CAGCAGAGTC	CGACAACAGC	TGAAACGTTA	GATGCTACCC	GCAGGGTAGA	7600
7601	GTTCGAATTC	GGTCTGCTAT	AAATAATTTA	GTTAATGAAC	TAGTAAGAGG	TACTGGACTG	TACAATCAGA	7680
7681	AAGTAIGICT	GGGTTGGICT	GGACCTCTGC	ACCTGCAICT	TAAATGCATA	ggtgctgaaa	tataaagttt	7760
7761	aacacacgtg	gtacgtacga	taacgtacag	tgttttccc	tggacttaa	tcgaagggtg	gtgtcttgga	7840
7841	taaacaatata	tggttcatat	atgtccgtag	gcacgtaaaa	aaagcgaggg	attcgaattc	ccccggaacc	7920
7921	gcccaG							7926